

IN THE CLAIMS

The current status of the claims is reflected in the below listing of claims.

1. (Previously Presented) A composition for use as a catalyst in oxidation or reduction reactions, the composition comprising platinum and copper, wherein (i) the concentration of platinum is greater than 50 atomic percent and less than about 80 atomic percent, and (ii) the composition has an average particle size which is less than 25 angstroms (Å).

2. (Original) The composition of claim 1 wherein the sum of the concentrations of platinum and copper therein is greater than about 95 atomic percent.

3. (Previously Presented) The composition of claim 1 wherein said composition comprises an alloy of platinum and copper.

4. (Previously Presented) The composition of claim 1 wherein said composition consists essentially of an alloy of platinum and copper.

5. (Previously Presented) The composition of claim 1 wherein the composition has an average particle size which is less than about 20 angstroms.

6. (Previously Presented) The composition of claim 1 wherein the composition has an average particle size which is less than 15 angstroms.

7. (Previously Presented) The composition of claim 1 wherein the concentration of platinum is greater than about 60 atomic percent and less than about 80 atomic percent.

8. (Previously Presented) The composition of claim 1 wherein the concentration of platinum is greater than about 65 atomic percent and less than about 75 atomic percent.

9. (Previously Presented) A supported electrocatalyst powder for use in electrochemical reactor devices, the supported electrocatalyst powder comprising the composition of claim 1 on electrically conductive supports.

10. - 71. (Canceled)

72. (Previously Presented) The composition of claim 2 wherein said composition comprises an alloy of platinum and copper.

73. (Previously Presented) The composition of claim 2 wherein said composition consists essentially of an alloy of platinum and copper.

74. (Previously Presented) The composition of claim 2 wherein the composition has an average particle which is less than about 20 angstroms.

75. (Previously Presented) The composition of claim 2 wherein the composition has an average particle size which is less than 15 angstroms.

76. (Previously Presented) The composition of claim 2 wherein the concentration of platinum is greater than about 60 atomic percent and less than about 80 atomic percent.

77. (Previously Presented) The composition of claim 2 wherein the concentration of platinum is greater than about 65 atomic percent and less than about 75 atomic percent.

78. (Previously Presented) A supported electrocatalyst powder for use in electrochemical reactor devices, the supported electrocatalyst powder comprising the composition of claim 2 on electrically conductive supports.